Scenario Planning Model

Using Urban Footprint for Regional Planning

Strategic Growth Council Thursday Feb. 9, 2017

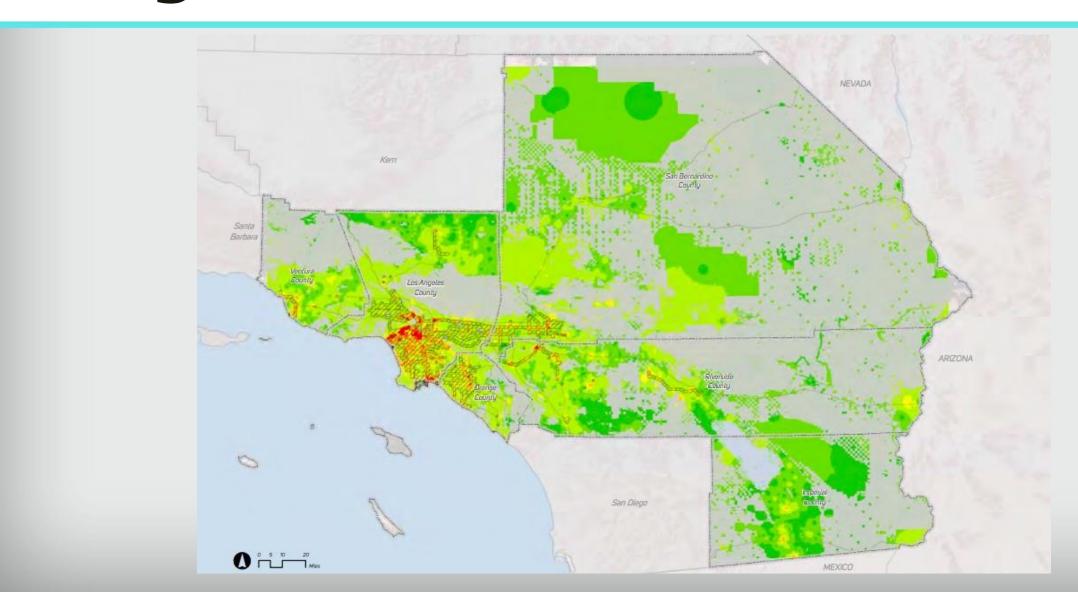
Jason Greenspan, AICP, Sustainability Manager Marco Anderson, Program Manager Rye Baerg, Senior Regional Planner



Introduction

- Sustainability Planning Model (SPM)
- SPM Public Health Module

Regional Profile



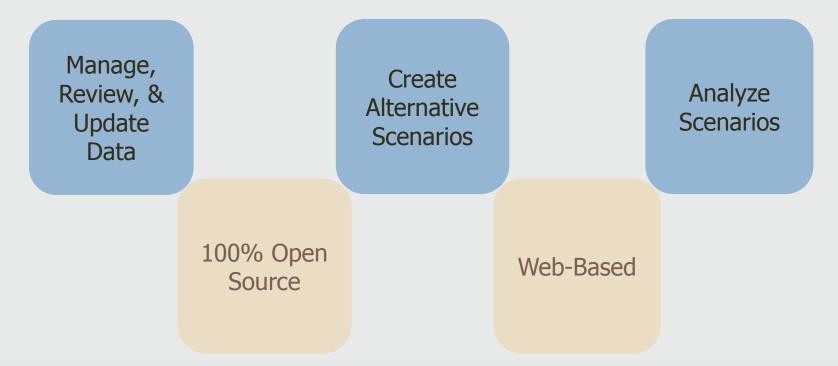
2016 RTP/SCS Scenario Development

MAJOR COMPONENTS				
	TREND STATUS QUO	2012 RTP/SCS UPDATE WITH LOCAL INPUT	POLICY A FURTHER PROGRESS	POLICY B EXCEEDING EXPECTATIONS
Meeting Targets	No	No	Yes	Yes
Transportation Investments	✓ Committed Projects	✓ Updated Committed Projects	 ✓ HQTA focused ✓ Additional Livable Corridors ✓ 1st/last mile focused ✓ Improved Walkability 	✓ Unconstrained transit expansion✓ Unconstrained Active Transport
Growth Projections (Population, Household & Job)	✓ Trend	✓ Local Input✓ At all geographic levels	✓ Local Input✓ At jurisdiction level	✓ Local Input✓ At jurisdiction level
Housing Mix	Based on Past Trends <i>Growth Increment:</i> 64% Single Family 36% Multifamily/ Townhome	Based on Local Plans Growth Increment: 48% Single Family 52% Multifamily/ Townhome	Based on Shifting Demand Growth Increment: 34% Single Family 66% Multifamily/ Townhome	Based on Shifting Demand Growth Increment: 28% Single Family 72% Multifamily/ Townhome
Land Development Category*	2012–2040 New Growth 3% Urban, 11% Compact, 86% Standard	2012 – 2040 New Growth 13% Urban 32% Compact 55% Standard	2012 – 2040 New Growth 13% Urban 49% Compact 38% Standard	2012 – 2040 New Growth 13% Urban 59% Compact 28% Standard

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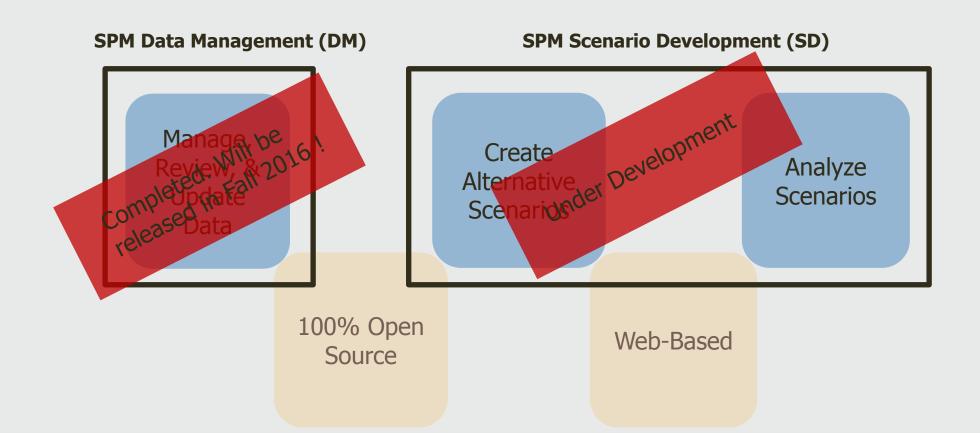
Scenario Planning Model

 A web-based land use sketch planning tool for data management, scenario development and modeling



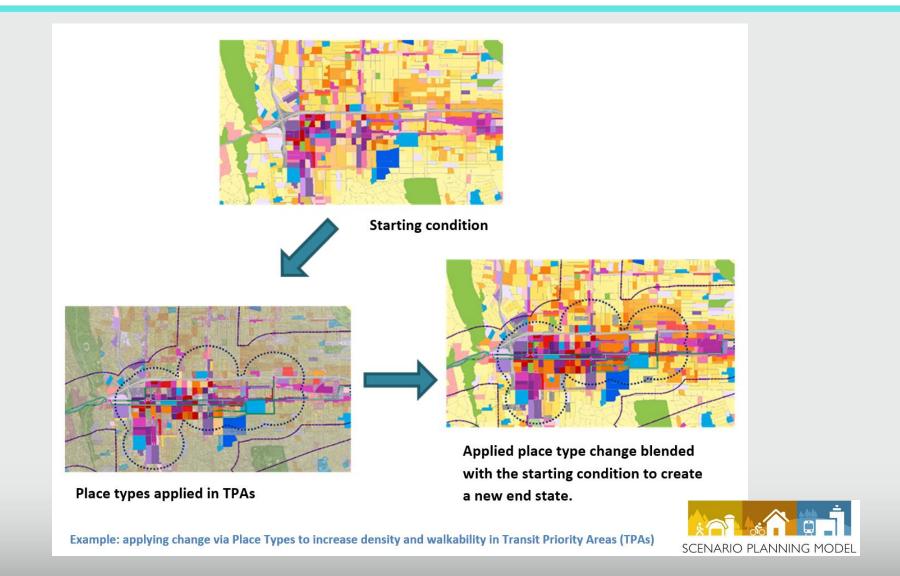


SPM for Local Jurisdictions

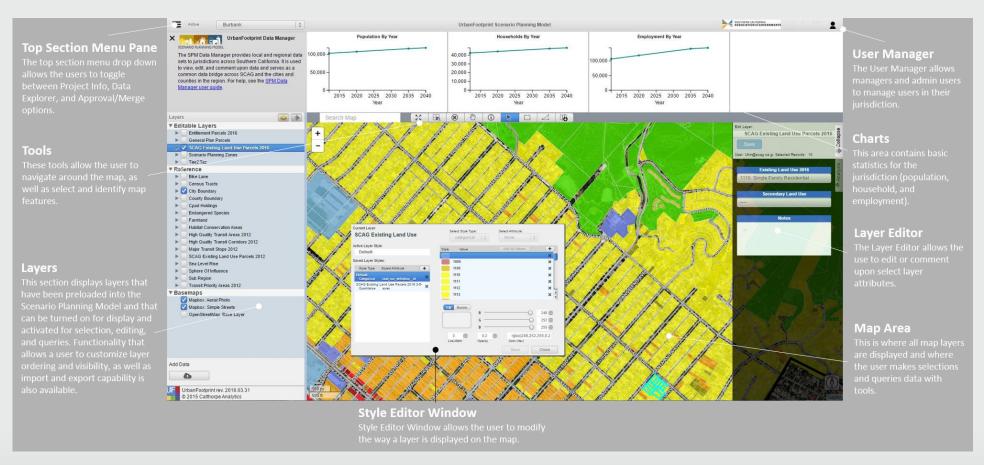




Using SPM to Build Scenarios

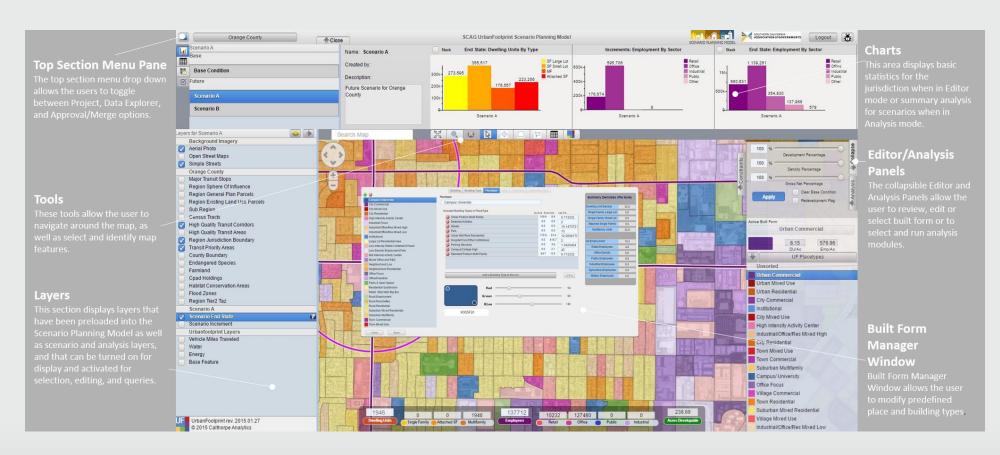


Manage, Review & Update Data



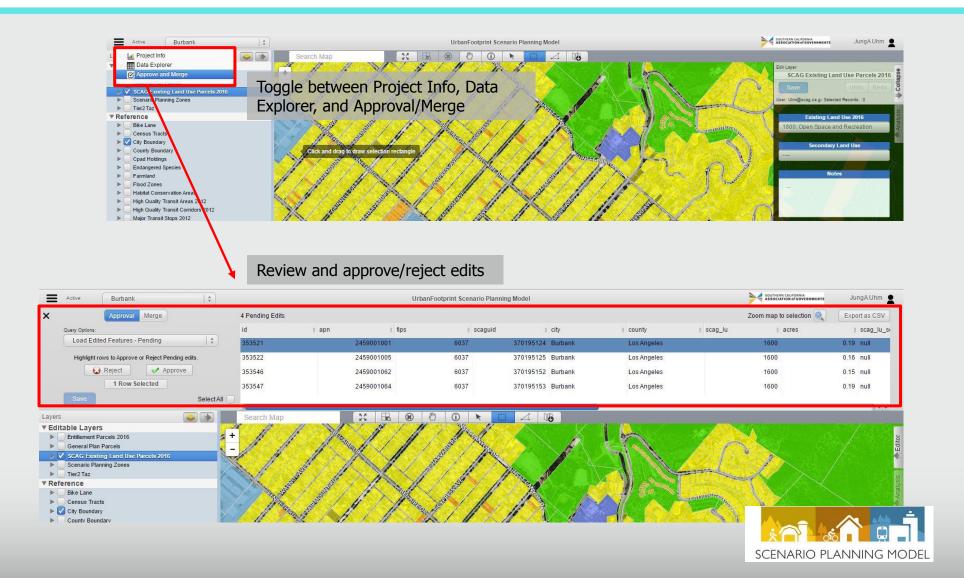


Create Alternative Scenarios





Local Manager Approval



Visualizing Regional Growth



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California Public Health Assessment Model

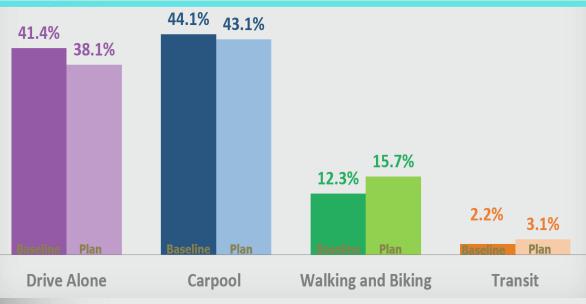






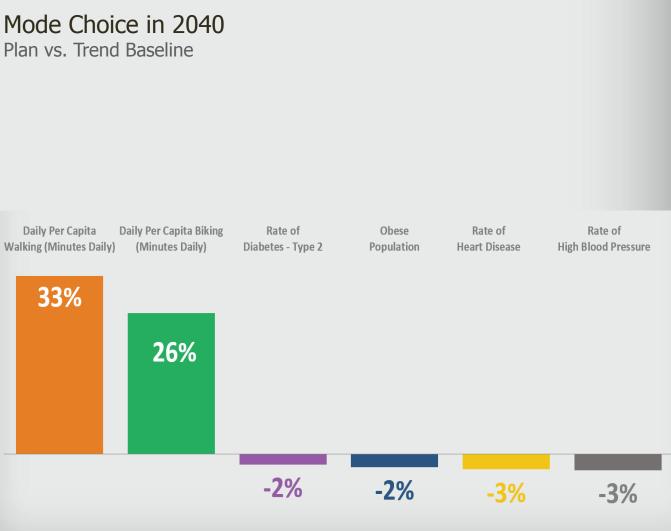


Mode Choice & Public Health



Note: These figures include additional improvements in walking and biking associated with the benefits of certain active transportation investments, which are analyzed as a supplement to SCAG's Regional Trip Based Model





^{*} Results are for the new population in areas of the plan experiencing land use changes.

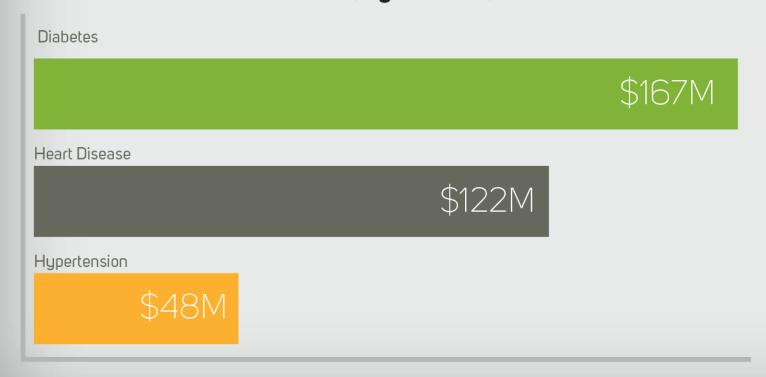
Current Costs to the Region



Total annual regional costs of diabetes, heart disease, and hypertension in ages 18-64. Seniors add an additional \$8.5 billion in health costs for the same conditions.

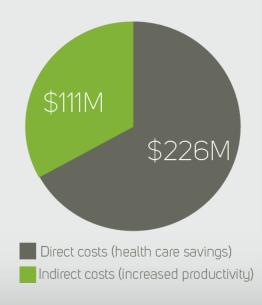
Additional Savings from 2016 RTP/SCS Implementation

Predicted Annual Physical Activity Savings in 2040 for Adults (Age 18-64)



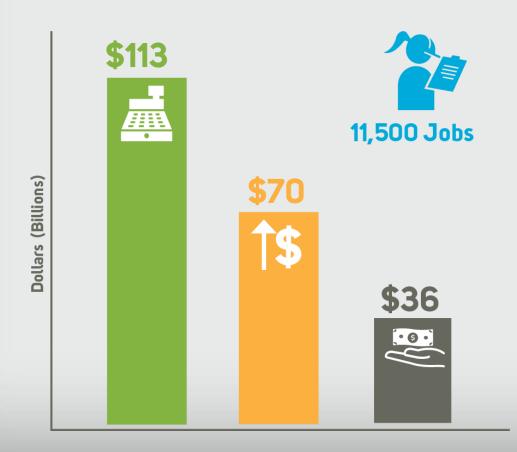
\$337 Million

Predicted annual physical activity savings in 2040 in adults ages 18-64 from full RTP implementation



Regional Impact

Average Annual Economic Impacts due to Active Transportation





Employment (total jobs)

The total number of jobs associated with active transportation infrastructure spending and the associated health effects



Personal Income (\$B)

Employment total multiplied by average wages by position type



Sales Output (\$B)

Sales output discounted for prior stages of manufacturing that occurred outside the SCAG region.



Value Added (\$B)

The difference between retail sale prices and the cost to purchase the item being sold.

Questions

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